

^3He Polarizer - Schedule Overview

- **UM Testing**
 - October-November 2002 Full Test
- **LANL Lab Testing**
 - January-February 2003 *all components to LANL*
- **Cave Installation & Testing**
 - April 2003 2-3 weeks
 1. AFP, laser, heater systems
(operate through cave)
 2. Cell lifetime
(500 hrs = 3 weeks) 4 days $P=0.83 P_0$
 3. High Polarization check

^3He Polarizer-Component Schedule

	Const.	Testing	Status
Oven	02-AUG-02	16-AUG-02	Testing @ UD w/ heater system (temp oven @ UM)
NMR	02-SEP-02	04-OCT-02	Procured @ Hamilton To UM 25-OCT ?
Lasers		04-OCT-02	Arrived @ UM 27-SEP Check and characterize next week
Optics	16-OCT-02	04-OCT-02	All procured @ UM
Heater / Controller	30-OCT-02	15-NOV-02	Testing @ UD
Mechanical Support	02-NOV-02	15-NOV-02	design ready check w/ integration purchas list to Seppo

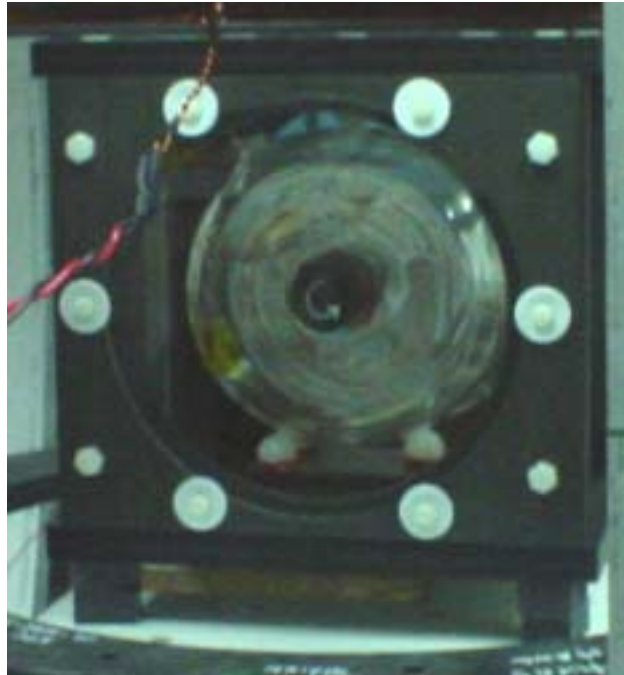
NIST Cells-

1 new “Kirk” 10cm x 7 cm $T_1 \sim 500$ hrs
 narrowed lasers: P_3 equiv to 1 FAP (or better?)

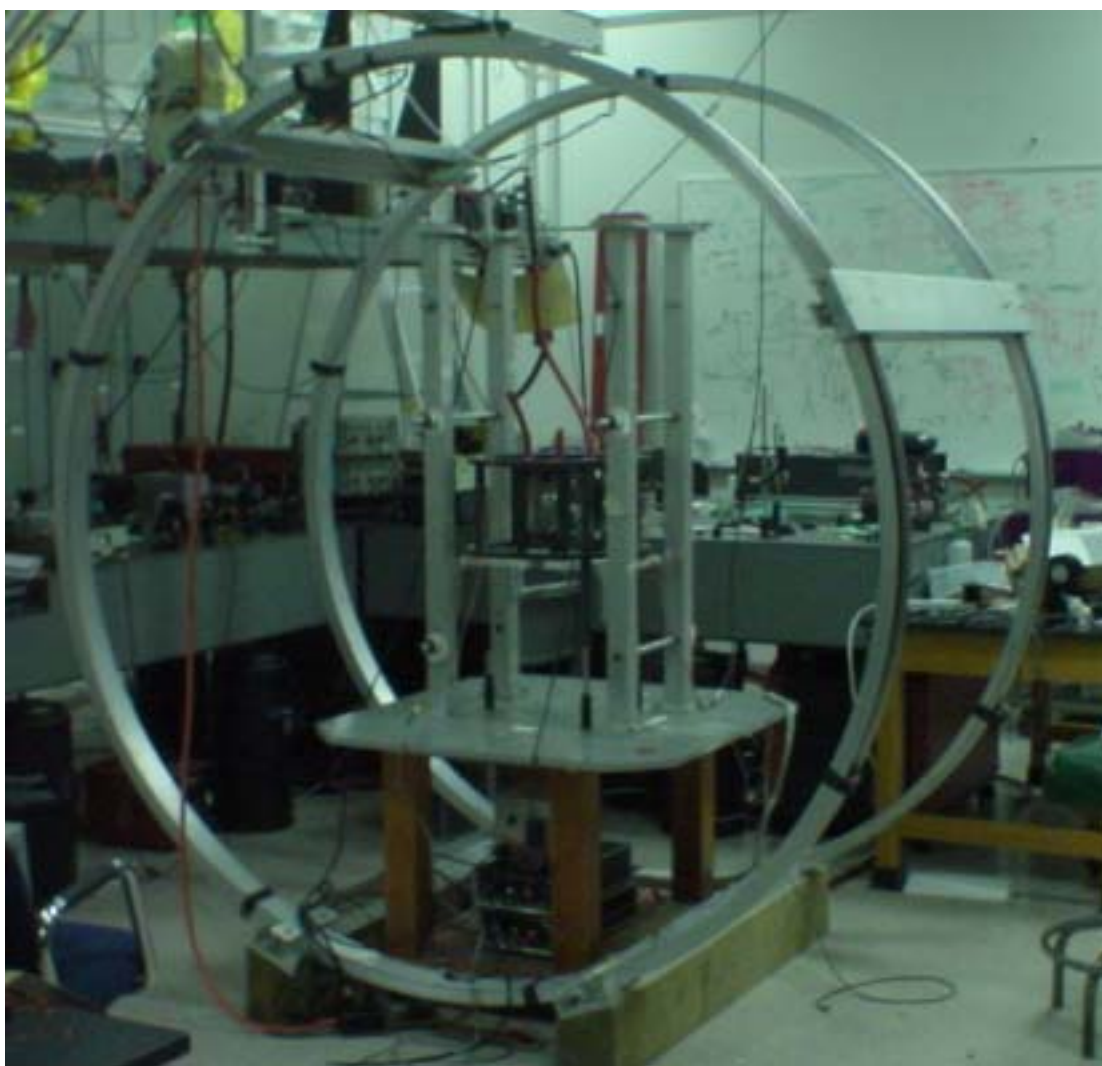
^3He Polarizer - Issues

- AFP flip and ^3He polarizer
 - How often do we flip?
 - AFP electronics through cave?
 - Manual/remote optics?
 - Can we do a B field AFP sweep during commissioning?
 - How/When can we do noise test in the cave?
- Laser Safety
 - What does LANL need?
 - When do we start?
- Room outside the cave
 - AFP electronics, Todd's heater, etc.
- Alignment and neutron collimation

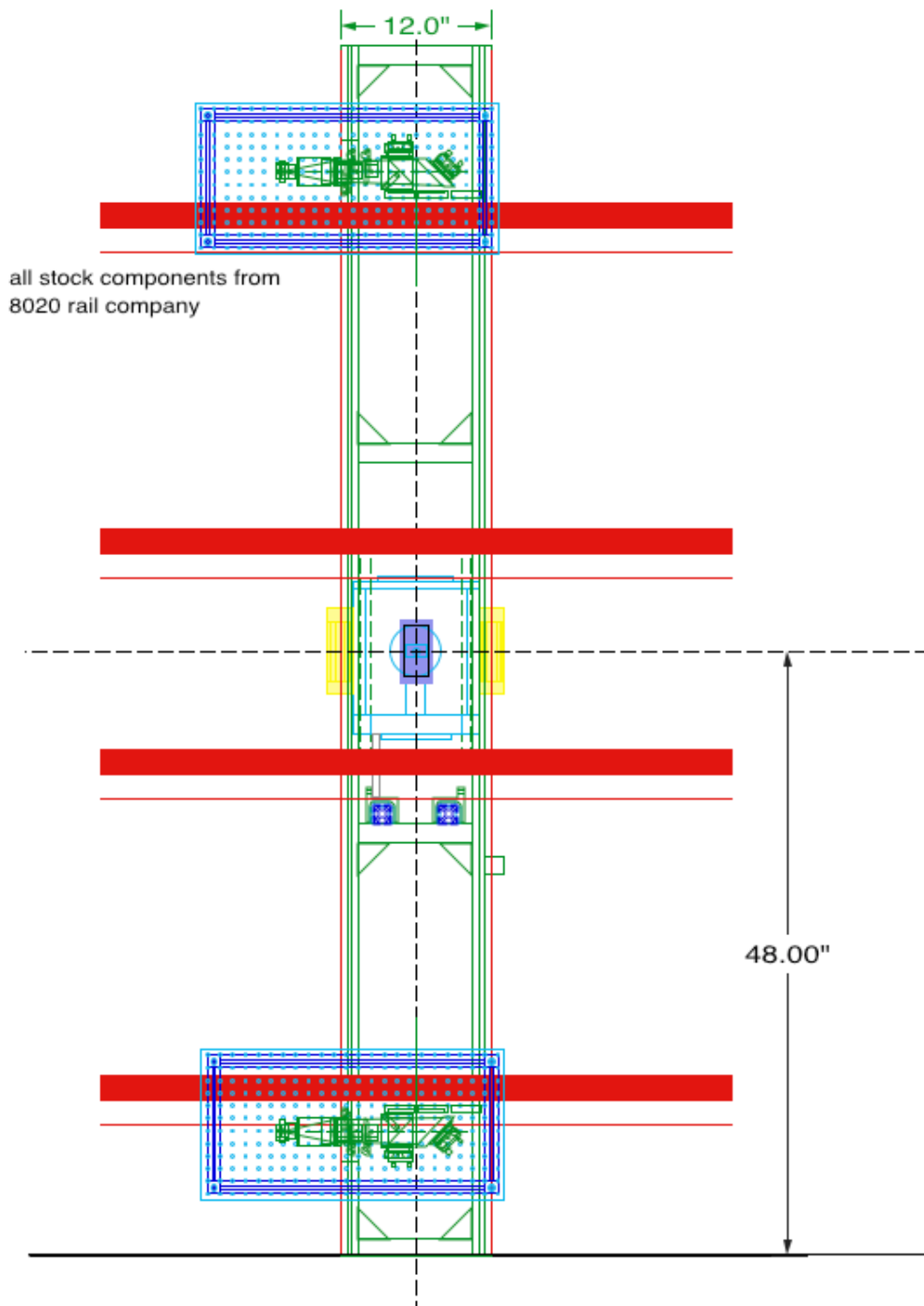
Test Oven @ UM



Test Stand @ UM



Stand design - side view



Stand Design - Beam View

